

# RAYCONN ELECTRONICS CO., LTD.

## SPECIFICATION FORM

### FEATURES

- ✧ 0.40 INCHES (10.16MM) DIGIT HEIGHT
- ✧ 9.80MM×18.70MM OUTLINE
- ✧ SINGLE DIGIT
- ✧ SINGLE COLOR
- ✧ EASY ASSEMBLY
- ✧ HIGH BRIGHTNESS
- ✧ SOLID STATE RELIABILITY

### DESCRIPTION

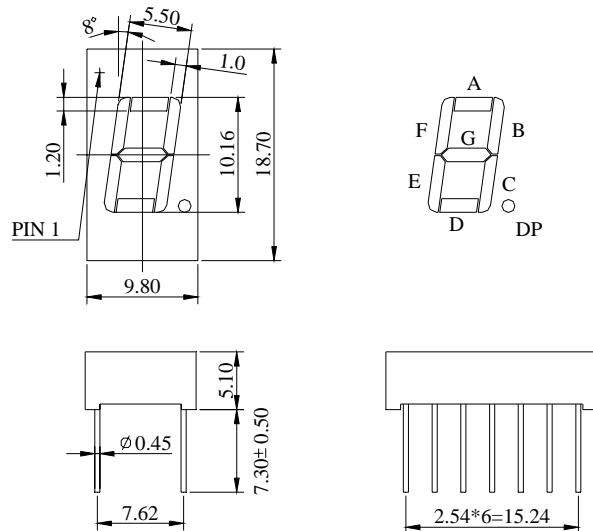
The REC-S4102CSR-2 is a 0.4 inches (10.16mm) digit height, 9.80mm×18.70mm outline, single color, single digit with common cathode numeric display. The display utilizes super-red LED chips fabricated from GaAlAs epiwafer on GaAs substrate grown by liquid phase epitaxy. These devices have black surface and white segments.

### DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-S4102CSR-2	Red	Black Surface & White Segments

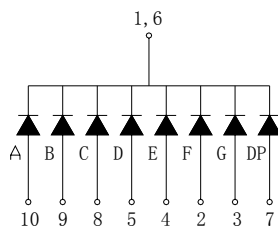
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## PACKAGE DIMENSION



- Notes: 1. All dimensions are in millimeters.  
2. Tolerance is  $\pm 0.25\text{mm}$  unless otherwise specified.

## INTERNAL CIRCUIT DIAGRAM



## PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Common Cathode	6	Common Cathode
2	Anode F	7	Anode DP
3	Anode G	8	Anode C
4	Anode E	9	Anode B
5	Anode D	10	Anode A

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## ABSOLUTE MAXIMUM RATING AT $T_A=25^{\circ}\text{C}$

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per Seg.	$P_{AD}$	65	mW
Peak Forward Current per Seg. (1/10 duty cycle, 0.1ms pulse width.)	$I_{PF}$	100	mA
Continuous Forward Current per Seg.	$I_{AF}$	20	mA
Reverse Voltage per Seg.	$V_R$	5	V
Operating Temperature Range, $T_{opr}$		- 25° C to + 80° C	
Storage Temperature Range, $T_{stg}$		- 30° C to + 85° C	
Solder Temperature : 1 / 16 inch below seating plane for 3 seconds at 260° C			

## ELECTRO - OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}\text{C}$

PARAMETER	UNIT	MIN	TYPE	MAX
Luminous Intensity per Seg., $I_V$ ( $I_F=20\text{mA}$ )	mcd	7	10	15
Peak Emission Wavelength, $\lambda_p$ ( $I_F=20\text{mA}$ )	nm		635	
Special Line Half-Width, $\Delta\lambda$ ( $I_F=20\text{mA}$ )	nm		20	
Forward Voltage per Seg., $V_F$ ( $I_F=20\text{mA}$ )	V	1.6	1.8	2.2
Reverse Current per Seg., $I_R$ , ( $V_R=5\text{V}$ )	$\mu\text{A}$			100
Luminous Intensity Matching Ratio, $I_{V-m}$ ( $I_F=20\text{mA}$ )				1.5:1